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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/689,700	10/13/2000	Debra R. Rolison	79,854	6636
75	90 12/05/2001			
Associate Counsel (Patents) Naval Research Laboratory Code 1008.2			EXAMINER	
			BOS, STEVEN J	
4555 Overlook Washington, DO			ART UNIT	PAPER NUMBER
	**************************************		1754 DATE MAILED: 12/05/2001	

Please find below and/or attached an Office communication concerning this application or proceeding.





## Office Action Summary

Application No. 09/689,700

Examiner

Applicant(s)

Art Unit

Rolison et al

		Steven Bos	1754	
	The MAILING DATE of this communication appears	s on the cover sheet with the co	rrespondence addres	s
Period 1	for Reply	·		•
	ORTENED STATUTORY PERIOD FOR REPLY IS SE MAILING DATE OF THIS COMMUNICATION.	T TO EXPIRE 3 MOI	NTH(S) FROM	
· af	nsions of time may be available under the provisions of 37 of ter SIX (6) MONTHS from the mailing date of this communi	cation.	•	
be	period for reply specified above is less than thirty (30) day considered timely.			
	period for reply is specified above, the maximum statutory mmunication.	period will apply and will expire S	IX (6) MONTHS from t	he mailing date of this
- Failur - Any r	er to reply within the set or extended period for reply will, be reply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	oy statute, cause the application to ne mailing date of this communicati	become ABANDONED on, even if timely filed	(35 U.S.C. § 133). , may reduce any
Status				
1) 🗆	Responsive to communication(s) filed on		· · · · · · · · · · · · · · · · · · ·	<u> </u>
2a) 🗌	This action is <b>FINAL</b> . 2b) 💢 This action	ction is non-final.		
3) 🗆	Since this application is in condition for allowance closed in accordance with the practice under $\textit{Ex p}$			merits is
Disposi	tion of Claims			
4) 💢	Claim(s) 1-21	is	/are pending in the	application.
4	la) Of the above, claim(s)	i	s/are withdrawn fro	m consideration.
5) 🗆	Claim(s)	<u>dan makatan menganakan dan menanggalan dan menanggalan dan menanggalan dan menanggalan dan menanggalan dan me</u>	is/are allowed.	
6) 💢	Claim(s) 1-21	· · · · · · · · · · · · · · · · · · ·	is/are rejected.	•
7)	Claim(s)		is/are objected	to.
8) 🗆	Claims	are subject to re	striction and/or elec	tion requirement.
Applica	tion Papers			
9) 🗆	The specification is objected to by the Examiner.			· · · · · · · · · · · · · · · · · · ·
10)	The drawing(s) filed on is/ar	e objected to by the Examiner	·.	
11)	The proposed drawing correction filed on	is: a) 🗌 approv	ed b)□ disapprove	ed.
12)	The oath or declaration is objected to by the Exam	niner.		
Priority	under 35 U.S.C. § 119			
13)	Acknowledgement is made of a claim for foreign	priority under 35 U.S.C. § 119	9(a)-(d).	**
a) [	☐ All_b)☐ Some* c)☐ None of:		•	
	1.   Certified copies of the priority documents have	ive been received.		
	2. Certified copies of the priority documents ha	ive been received in Application	on No:	•
	<ol> <li>Copies of the certified copies of the priority application from the International Bur ee the attached detailed Office action for a list of t</li> </ol>	eau (PCT Rule 17.2(a)).		age
14)	Acknowledgement is made of a claim for domesti			
Attachm				•
	otice of References Cited (PTO-892)	18) Interview Summary (PTO-413) I		
	otice of Draftsperson's Patent Drawing Review (PTO-948)  Iformation Disclosure Statement(s) (PTO-1449) Paper No(s).	19) Notice of Informal Patent Applic	ation (P1U-152)	
···· A	romation Disclosure Statement(s) (FTO-1445) Paper NO(s).	20) Other:		

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, "high surface area" is indefinite as to the metes and bounds of this phrase.

In claim 1, "nanoscale" is indefinite as to what dimension of the manganese oxide material is considered to be nanoscale.

In claim 1, "substantially absent" is indefinite as to the metes and bounds of this phrase.

In claim 1, line 4, "said material" is indefinite as to which material this is referring to, the mesoporous manganese oxide material or the gel of manganese oxide material.

In claim 4, "using KMnO4" is indefinite as to how it is used; --with KMnO4-- is suggested.

In claim 5, "using NaMnO4" is indefinite as to how it is used; --with NaMnO4-- is suggested.

In claim 6, "such as" is indefinite.

In claim 7, "other hydrocarbons" is indefinite.

In claims 14-17, "said manganese oxide materials" lack(s) proper antecedent basis in the claim(s).

In claims 18,20, "form" is indefinite and superfluous.

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-4,6-11,14-21 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by Long, et al. See pg. 453.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3,13,16,17,20,21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dasgupta '952.

Dasgupta teaches the instantly claimed process which would appear to form the instantly claimed aerogel manganese oxide product (see col. 4, Example). The taught supercritical carbon dioxide treatment would appear to meet the instantly claimed "removing pore fluid ... substantially absent" step.

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Where the examiner has found a substantially similar product as in the applied prior art the burden of proof is shifted to the applicant to establish that their product is patentably distinct, In re Brown, 173 USPQ 685, In re Fessmann, 180 USPQ 324, In re Spada, 15 USPQ2d 1655, In re Fitzgerald, 205 USPQ 594, and MPEP 2113.

Claims 14,15,18,19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Passerini et al. (1999) instantly cited on pg. 6 of the specification.

Passerini teaches manganese oxide ambigels which appear to be identical to those instantly claimed.

Where the examiner has found a substantially similar product as in the applied prior art the burden of proof is shifted to the applicant to establish that their product is patentably distinct, In re Brown, 173 USPQ 685, In re Fessmann, 180 USPQ 324, In re Spada, 15 USPQ2d 1655, In re Fitzgerald, 205 USPQ 594, and MPEP 2113.

Claims 5,12 appear allowable over the cited prior art of record.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Bos whose telephone number is (703) 308-2537. The examiner is on the increased flexitime program schedule. The FAX No. for After Final amendments is 703-872-9311, for all others it is 703-872-9310.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Steven Bos

Primary Examiner

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